

CRAWFORD LABORATORIES, INC. -- MIL-C-22750 12197 ORANGE, PART A, M3-008 --
8010-01-419-1158

===== Product Identification =====

Product ID:MIL-C-22750 12197 ORANGE, PART A, M3-008

MSDS Date:03/07/1996

FSC:8010

NIIN:01-419-1158

Kit Part:Y

MSDS Number: CCKVT

=== Responsible Party ===

Company Name:CRAWFORD LABORATORIES, INC.

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

State:IL

ZIP:60609

Country:US

Info Phone Num:312-376-7132

Emergency Phone Num:800-424-9300

Pre

parer's Name:DAVID SCHMETTERER

CAGE:DO165

=== Contractor Identification ===

Company Name:CRAWFORD LABORATIES, INC

Address:4165 SOUTH EMERALD AVENUE

City:CHICAGO

State:IL

ZIP:60609

Phone:800-424-9300 CHEMTREC

CAGE:DO165

Company Name:CRAWFORD LABORATORIES, INC

Address:4165 SOUTH EMERALD AVENUE

Box:City:CHICAGO

State:IL

ZIP:60609

Country:US

Phone:312-376-7132

CAGE:5V430

===== Composition/Information on Ingredients =====

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA II

I) (VP =
71.2 MMHG)
CAS:78-93-3
RTECS #:EL6475000
Fraction by Wt: 16.0%
OSHA PEL:200 PPM/300 STEL
ACGIH TLV:200 PPM/300STEL 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:NONYL PHENOL (VP = 0.9 MMHG)
CAS:84832-15-3
Fraction by Wt: 40.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:EPOXY RESIN
CAS:25085-99-8
Fraction by Wt: 20.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:NAPHTHA, LIGHT AROMATIC (VP = 9.0 MMHG)
CAS:64742-95-6
Fraction by Wt: 2.5%
Other REC Limits:NONE RECOM
MENDED
OSHA PEL:50 PPM
ACGIH TLV:50 PPM 9091

Ingred Name:SILICA, CRYSTALLINE - QUARTZ (MAY BE RELEASED BY SANDING
DRIED PAINT FILM)
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 11.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT EST.
ACGIH TLV:0.1 MG/M3 RDUST;9495

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:REPEATED/

PROLONGED OCCUPATIONAL

OVEREXPOSURE TO SOLVENTS ASSOCIATED W/PERMANENT BRAIN/NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. PROLONGED OVEREXPOSURE (INHAL)MAY CAUSE DELAYED LUNG DISEASE.

Explanation of Carcinogenicity:FROM INITIAL LIMITED TESTS/STUDIES IARC CONCLUDES IS LIMITED EVIDENCE OF CARCINOGENICITY FROM CRYSTALLINE SILICA.

Effects of Overexposure:OVEREXPOSURE MAY PRODUCE VARIOUS EFFECTS. ACUTE

TOXICITY (HEADACHE, DIZZINESS, NAUSEA, LOSS CONSCIOUSNESS. SEVERE EYE IRRITATION POSSIBLY RESULTING PERMANENT DAMAGE. IRRITATED MUCOUS MEMBRANES. VOMITING FROM INGESTION. SKIN DEFATTING/DRYING. SENSITIZATION AFTER REPEATED CONTACT.

===== First Aid Measures =====

First Aid:EYE: FLUSH W/PLENTY CLEAN H2O 15 MIN, LIFTING LIDS, GET MED ATTN. INHAL: GET FRESH AIR, PROVIDE OXYGEN IF BREATH DIFFICULT. GIVE ARTIF RESP IF NOT BREATHING. GET MED ATTN. KEEP VICTIM

WARM/QUIET. NEVER GIVE UNCONS PERSON LIQ. INGEST: CALL DR. IMMEDIATELY. DON'T INDUCE VOMIT. IF VOMIT SPONTANEOUSLY, KEEP HEAD BELOW HIPS. SKIN: FLUSH W/H2O WHILE REMOVING CONTAM CLOTHES/SHOES. IF IRRITATION PERSISTS, GET MED AID

===== Fire Fighting Measures =====

Flash Point Method:SCC

Flash Point:22.0F,-5.6C

Lower Limits:1.4

Extinguishing Media:FOAM, CO2, OR DRY CHEMICAL

Fire Fighting Procedures:WATER MAY BE USED TO KEEP EXPOSED CONTAINERS

COOL & KEEP FLAMMABLE STRUCTURE WETDON'T ENTER FIRE AREA WITHOUT PROPER PROTECTION, HAZARDOUS DECOMP MAY BE PRESENT

Unusual Fire/Explosion Hazard:WATER PRESSURE MAY SPREAD A FLAMMABLE LIQUID FIRE. SEALED CONTAINERS MAY EXPLODE IF OVER HEATED.

===== Accidental Release Measures =====

Spill Release Procedures:WARNING - FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. SOAK UP WITHABSORBENT

& PLACE IN NON-LEAKING CONATINERS. SEAL
TIGHTLY FOR PROPER DISPOSAL.

===== Handling and Storage =====

Handling and Storage Precautions:TREAT AS A HAZARDOUS-FLAMMABLE
MATERIAL. KNOW APPLICABLE D.O.T. REG. BEFORE ATTEMPTING TO
TRANSPORT THIS MATERIAL.
Other Precautions:WARNING: HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE
SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED W/AIR.
IGNITION MAY OCCUR @ TEMPS BELOW THOSE PUBLISHED AS
AUTOI
GNITION/IGNITION TEMPS. IGNITI ON TEMPS DECREASE W/INCREASING
VAPOR*

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IMPORTANT-MUST PROVIDE ADEQUATE VENT TO MAINTAIN
VAPOR CONCENTRATE BELOW ESTAB- LISHED TLV LIMIT AS GIVEN BY OSHA.
IN MORE CONFINED AREAS A NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED
WITH ORGANIC VAPOR C ARTRIDGE SHOULD BE WORN.
Ventilation:MUST PROVIDE ADEQUATE VENTILATION, SEE PARAGRAPH ABOVE.
Protective Gloves:USE RUBBER
GLOVES
Eye Protection:APPROVED SAFETY GOGGLES &/OR FACE SHIELD
Other Protective Equipment:HAVE EYE BATH & SAFETY SHOWER AVAILABLE.
Supplemental Safety and Health
*VOLUME & VAPOR/AIR CONTACT TIME AND ARE INFLUENCED BY PRESSURE
CHANGES. IGNITION MAY OCCUR AT TYPICAL ELEVATED TEMPERATURE PROCESS
CONDITIONS, ESPECIALLY IN PROCESS OPERATING UNDER VACUUM IF
SUBJECTE D TO SUDDEN INGRESS OF AIR, OUTSIDE PROCESS EQUIPMENT
OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS/MIST.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:175 TO 344F
Vapor Density:>AIR
Spec Gravity:1.14
pH:NA
Viscosity:70 KU
Evaporation Rate & Reference:3.47 X N-BUTYL ACETATE
Solubility in Water:SLIGHT
Appearance and Odor:ORANGE LIQUID, SOLVENT ODOR
Percent Volatiles by Volume:39.6

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
OXIDIZING AGENTS & STRONG ALKALIES. NOT CORROSIVE TO METAL.

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES, STRONG
ALKALIES, & OXIDIZING AGENTS.

Hazardous Decomposition Products:INCOMPLETE COMBUSTION OR PRODUCTS LIKE
THIS MAY GENERATE HIGHLY POISONOUS CARBON MONOXIDE AND OTHER TOXIC
GASES

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT
LOCAL, STATE & FEDERAL REG. CONTACT AN APPROVED DISPOSAL FACILITY

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